

# Results of contactless and non-invasive analysis: overview

**Project:** Digitization / Cataloguing of non-textual objects:  
Description and Digitization of Precious Book Covers as Independent Works of Art.  
Project-Period: 01.10.2014 - 30.09.2017

**Shelfmark:** Munich, Bayerische Staatsbibliothek, Cod.tibet. 733

**Analytical methods:** X-Ray Fluorescence Spectroscopy (XRF): p. 2-4  
Fourier Transform Infrared Spectroscopy (FTIR): p. 5-8

**Contact:** Institute of Conservation and Restoration (IBR)  
of the Bayerische Staatsbibliothek, Munich

## XRF-Analysis: Mapping of measurement points and spectra

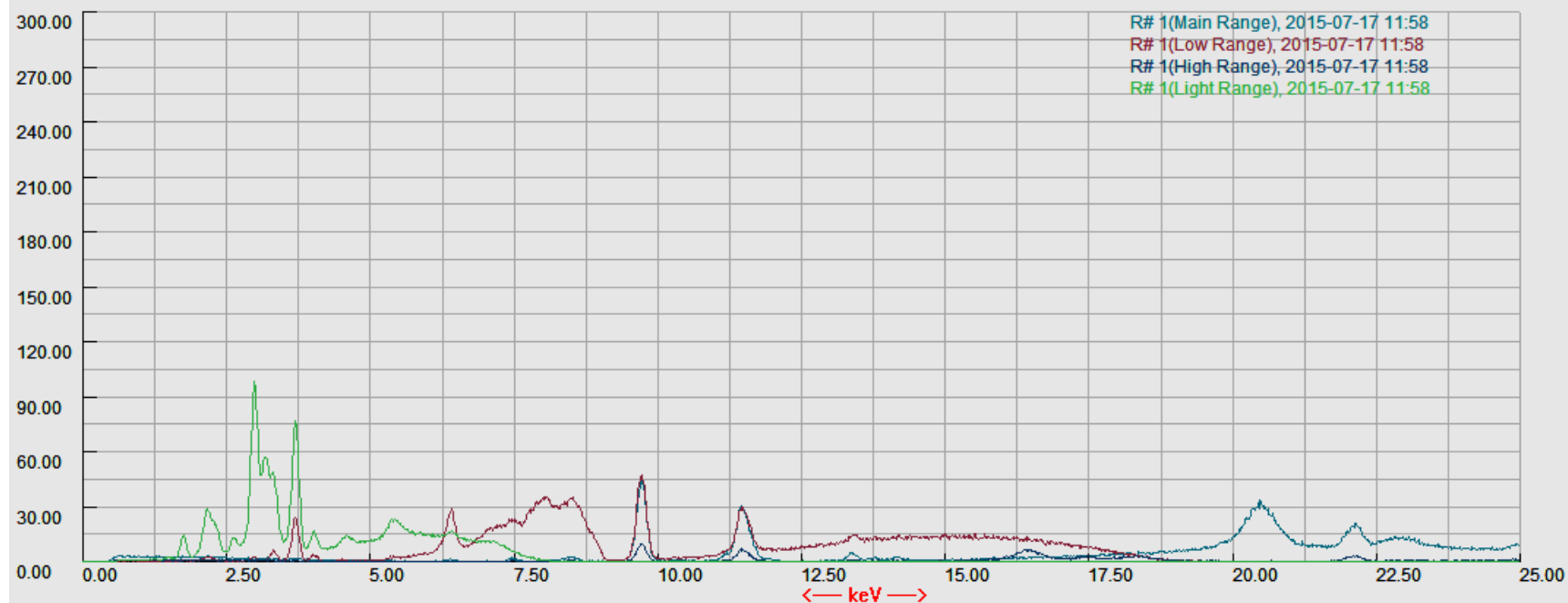
### Scanning parameters

Instrument: NITON XL3t GOLD D+  
Scanning mode: Mining (Cu, Zn)  
Spectral resolution:  $4\text{ cm}^{-1}$   
Scan duration: 150 s

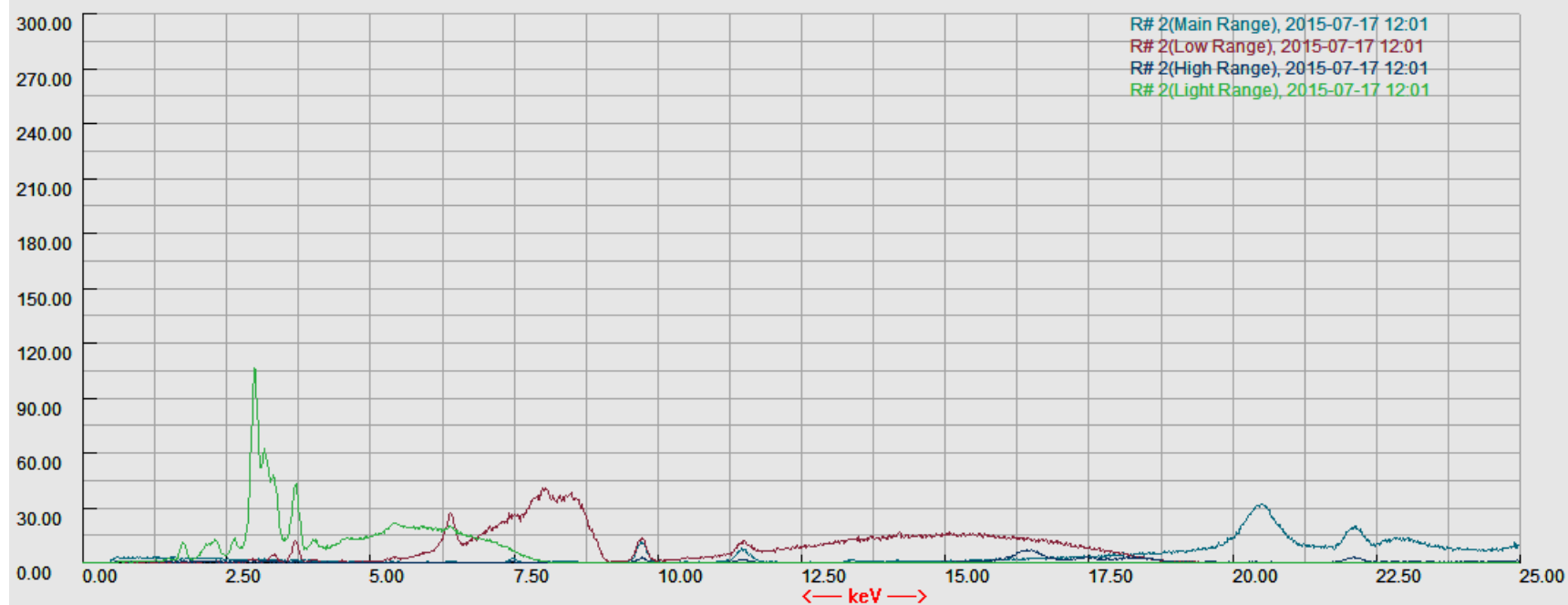
Spectra: #1 ... #4



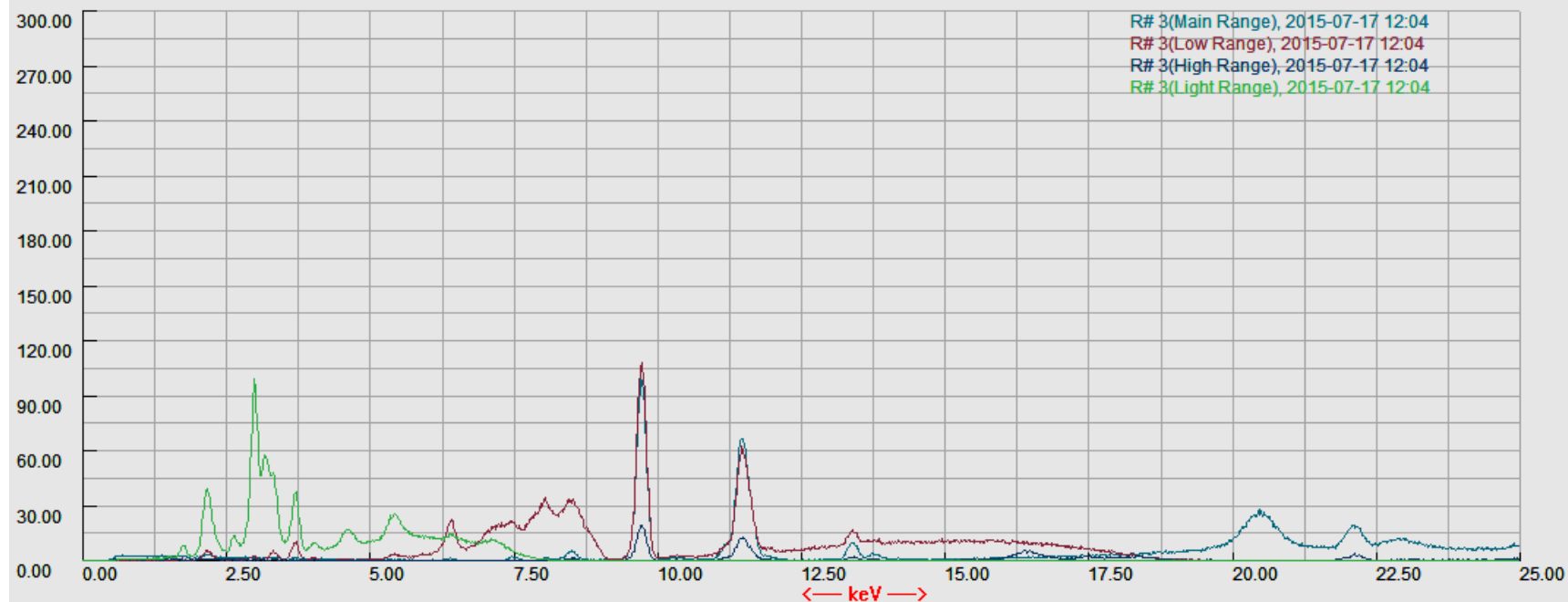
Counts/Sec



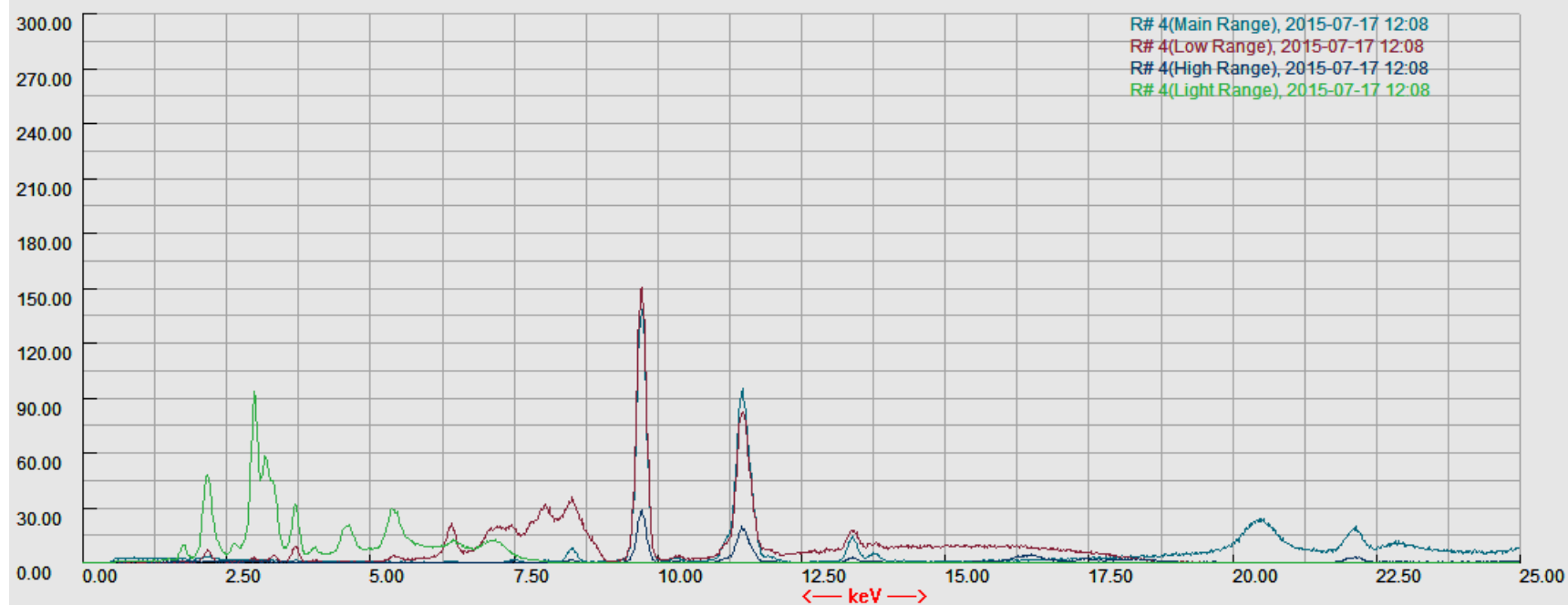
Counts/Sec



Counts/Sec



Counts/Sec



## FTIR-Analysis: Mapping of measurement points and spectra

### Scanning parameters

Instrument: BRUKER ALPHA  
Scanning mode: FTIR external reflection mode  
Spectral resolution:  $4\text{ cm}^{-1}$   
Spectral range:  $360\text{-}5400\text{ cm}^{-1}$   
Scan duration: 240 scans

Spectra: tibet\_733\_1a\_1a ... \_1f  
(filename description: signature\_side a/b\_number of scan)





